

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : Minnesota Mining and  
Manufacturing Company

Art Unit : Unknown  
Examiner : Unknown

Patent No. : 5,056,892

Serial No. : 472,621

Filed : January 30, 1990

Title : TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits copies of the following documents listed on the attached Form 1449:

- (a) Agreement dated August 20, 1984 between Minnesota Mining and Manufacturing Company ("3M") and TIR Systems Limited ("the Agreement");
- (b) Memo dated 10/4/84 from S. Cobb to J.F. Abere;
- (c) Memo dated 10/26/84 from R. Appeldorn to R. Adalbert et al.;
- (d) Memo dated 11/12/84 from John C. Barnes to R.H. Appeldorn.

The subject matter of the Agreement is a thin, flexible, prism light guide material. The three memos relate to the material and to the Agreement.

Applicant further submits copies of the following patents listed on the attached Form 1449:

2,175,067 Rolph  
2,218,227 Winnek  
2,232,551 Merton  
2,248,638 Merton  
2,279,555 Browne et al.  
2,723,919 Pohnan  
3,288,990 Stahlhut  
3,689,346 Rowland  
3,894,228 Cobb, Jr.  
3,908,056 Anderson

CERTIFICATE OF MAILING BY EXPRESS MAIL

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July 10, 2003

Date of Deposit

Patentee : Minnesota Mining and Manufacturing Company  
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Attorney's Docket No.: 15518-002001

4,083,626 Miyahara et al.  
4,118,763 Osteen  
4,120,565 Rabl et al.  
4,154,219 Gupta et al.  
4,235,515 Sheiman et al.  
4,244,683 Rowland  
4,260,220 Whitehead  
4,389,085 Mori  
4,422,719 Orcutt  
4,466,697 Daniel  
4,497,860 Brady, Jr.  
4,576,850 Martens  
4,615,579 Whitehead  
4,805,984 Cobb  
0142250 Europe  
27-1880 Japan  
28-4669 Japan  
58-102904 Japan  
53-57068 Japan  
1426230 United Kingdom  
2127344 United Kingdom

Fumio Ide & Hiroshi Terada, "Kobunshi Shinsozai One Point-2, 'Optical Fiber & Optical Materials'" edited by Japan Polymer Society, published by Kyoritsu Shuppan K.K. on June 15, 1987, pp. 10-14.

"Polycarbonate Resin Handbook" edited by Seiichi Honma, published by Nikkikan Kogyo Shinbunsha on August 28, 1992, pp. 121-125.

Translations for the following references will be provided shortly:

48-7051 Japan  
58-51144 Japan  
49-51857 Japan  
55-159304 Japan  
56-77805 Japan  
60-70603 Japan

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Page : 3 of 3

Attorney's Docket No.: 15518-002001

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 1/10/03

  
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60136818.doc

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15518-002001	Application No.
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Cobb		
		Filing Date	Group Art Unit	
(37 CFR §1.98(b))				

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2,175,067		Rolph			
	AB	2,218,227		Winnek			
	AC	2,232,551		Merton			
	AD	2,248,638		Merton			
	AE	2,279,555		Browne et al.			
	AF	2,723,919		Pohnan			
	AG	3,288,990		Stahlhut			
	AH	3,689,346		Rowland			
	AI	3,894,228		Cobb, Jr.			
	AJ	3,908,056		Anderson			
	AK	4,083,626		Miyahara et al.			
	AL	4,118,763		Osteen			
	AM	4,120,565		Rabl et al.			
	AN	4,154,219		Gupta et al.			
	AO	4,235,515		Sheiman et al.			
	AP	4,244,683		Rowland			
	AQ	4,260,220		Whitehead			
	AR	4,389,085		Mori			
	AS	4,422,719		Orcutt			
	AT	4,466,697		Daniel			
	AU	4,497,860		Brady Jr.			
	AV	4,576,850		Martens			
	AW	4,615,579		Whitehead			
	AX	4,805,984		Cobb, Jr.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	AY	0 142 250		Europe			
	AZ	27-1880		Japan			X
	AAA	28-4669		Japan			X
	ABB	48-7051		Japan			X
	ACC	49-51857		Japan			X
	ADD	53-57068		Japan			X
	AEE	55-159304		Japan			X
	AFF	56-77805		Japan			X
	AGG	58-51144		Japan			X
	AHH	58-102904		Japan			X
	AII	60-70603		Japan			X
	AJJ	1,426,230		United Kingdom			
	AKK	2,127,344		United Kingdom			

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	ALL	Agreement dated August 20, 1984 between Minnesota Mining and Manufacturing Company ("3M") and TIR Systems Limited ("the Agreement");
	AMM	Memo dated 10/4/84 from S. Cobb to J.F. Abere
	ANN	Memo dated 10/26/84 from R. Appeldorn to R. Adalbert et al.
	AOO	Memo dated 11/12/84 from John C. Barnes to R.H. Appeldorn
	APP	Fumio Ide & Hiroshi Terada, "Kobunshi Shinsozai One Point-2, 'Optical Fiber & Optical Materials'" edited by Japan Polymer Society, published by Kyoritsu Shuppan K.K. on June 15, 1987, pp. 10-14.
	AQQ	"Polycarbonate Resin Handbook" edited by Seiichi Honma, published by Nikkikan Kogyo Shinbunsha on August 28, 1992, pp. 121-125.

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